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STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10517687
Filing Date	2006-04-19
First Named Inventor	Krishna Peri et al.
Art Unit	3732
Examiner Name	Meaghan E. MacPherson
Attorney Docket Number	5463/002

U.S. PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
/MA/	1	3961016		1972-09-12	Patel, R.P.	
↓	2	3969287		1976-07-13	Jaworek, D. et al.	
	3	4195128		1980-03-25	Hildebrand, D. and Gribnau, T.	
	4	4229537		1980-10-21	Hodgins, L.T. et al.	
	5	4247642		1981-01-27	Hirohara, H. et al.	
	6	4330440		1982-05-18	Ayers, J.S. et al.	
	7	4522752		1985-06-11	Sisto, A. et al.	
/MA/	8	5508384		1996-04-16	Murphy, R.B. and Schuster D.I.	

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/MA/	9	5955575		1999-09-21	Peri, K.G. et al.	
/MA/	10	6300312		2001-10-09	Chemtob, Sylvain	

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/MA/	1	0017348A	WO		2000-03-30	Hopital Sainte-Justine		<input type="checkbox"/>
	2	9500551	WO		1995-01-05	Merck Frosst Canada		<input type="checkbox"/>
	3	9623225	WO		1996-08-01	COR Therapeutics		<input type="checkbox"/>
/MA/	4	9309104	WO		1993-05-13	GD Searle & Co.		<input type="checkbox"/>

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/MA/	5	0045665	EP		1985-09-04	Aktiebolaget Hassle	<input type="checkbox"/>
/MA/	6	9932640	WO		1999-07-01	Hospital Sainte-Justine	<input type="checkbox"/>

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/MA/	1	ABRAMOVITZ, M. ET AL., Cloning and Expression of a cDNA for the Human Prostanoid FP Receptor, J. Biol. Chem. 269(4): 2632-2636 (1994)	<input type="checkbox"/>
	2	ABRAN, D. ET AL., Regulation of prostanoid vasomotor effects and receptors in choroidal vessels of newborn pigs, Am. J. Physiol. (Regulatory Integrative Comp. Physiol 41): R995-R1001 (1997)	<input type="checkbox"/>
	3	ALMQUIST, R.G. ET AL., Synthesis and Biological Activity of a Ketomethylene Analogue of a Tripeptide Inhibitor of Angiotensin Converting Enzyme, J. Med. Chem. 23: 1392-1398 (1980)	<input type="checkbox"/>
	4	BALDWIN, J.M. ET AL., An Alpha-carbon Template for the Transmembrane Helices in the Rhodopsin Family of G-protein-coupled Receptors, J. Mol. Biol. 272: 144-164 (1997)	<input type="checkbox"/>
	5	BERRIDGE, M.J. ET AL., Changes in the levels of inositol phosphates after agonist-dependent hydrolysis of membrane phosphoinositides, Biochem. J. 212: 473-482 (1983)	<input type="checkbox"/>
	6	COLEMAN, R.A. ET AL., VIII. International Union of Pharmacology - Classification of Prostanoid Receptors: Properties, Distribution, and Structure of the Receptors and Their Subtypes, Pharmacol. Rev. 46: 205-229 (1994)	<input type="checkbox"/>
/MA/	7	CRANKSHAW, D.J. ET AL., Effects of Prostanoids on the Rat's Myometrium In Vitro during Pregnancy, Biology of Reproduction 46: 392-400 (1992)	<input type="checkbox"/>

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/MA/	8	CRANKSHAW, D.J. ET AL., Effects of some naturally occurring prostanoids and some cyclooxygenase inhibitors on the contractility of the human lower uterine segment in vitro, <i>Can J Physiol Pharmacol</i> 72: 870-874 (1994)	<input type="checkbox"/>
	9	FINDEIS, M.A. ET AL., Nitrobenzophenone Oxime Based Resins for the Solid-Phase Synthesis of Protected Peptide Segments, <i>J. Org. Chem.</i> 54: 3478-3482 (1989)	<input type="checkbox"/>
	10	GENNARI, C. ET AL., Solid-Phase Synthesis of Peptides Containing Reverse-Turn Mimetic Bicyclic Lactams, <i>Eur. J. Org. Chem.</i> No. 2, pp. 379-388 (1999)	<input type="checkbox"/>
	11	GILL, P. ET AL., Synthesis of Enantiopure Arylkainoids: Preparation of (2S)- Δ^3 -4-Phenylkainic Acid, <i>J. Org. Chem.</i> 60: 2658-2659 (1995)	<input type="checkbox"/>
	12	GOETZL, E.J. ET AL., Specificity of expression and effects of eicosanoid mediators in normal physiology and human diseases, <i>FASEB J.</i> 9: 1051-1058 (1995)	<input type="checkbox"/>
	13	GOODMAN, M. ET AL. The Synthesis and Conformational Analysis of Retro-Inverso Analogues of Biologically Active Molecules, <i>Persepectives in Peptide Chemistry</i> pp. 283-294 (1981)	<input type="checkbox"/>
	14	GOSSELIN, F. ET AL., An Olefination Entry for the Synthesis of Enantiopure α,ω -Diaminodicarboxylates and Azabicyclo [X.Y.0] alkane Amino Acids, <i>J. Org. Chem.</i> 63: 7463-7471 (1998)	<input type="checkbox"/>
	15	GOSSELIN, F. ET AL., Rigid Dipeptide Surrogates: Syntheses of Enantiopure Quinolizidinone and Pyrroloazepinone Amino Acids from a Common Diaminodicarboxylate Precursor, <i>J. Org. Chem.</i> 65: 2163-2171 (2000)	<input type="checkbox"/>
	16	GOSSELIN, F. ET AL., Probing opioid receptor-ligand interactions by employment of indolizidin-9-one amino acid as a constrained Gly2-Gly3 surrogate in a leucine-enkephalin mimic, <i>J. Peptide Res.</i> 57(4): 337-344 (2001)	<input type="checkbox"/>
	17	GRIFFIN, B.W. ET AL. AL-8810: A Novel Prostaglandin F ₂ α Analog with Selective Antagonist Effects at the Prostaglandin F ₂ α (FP) Receptor, <i>J. Pharmacol. Exp. Ther.</i> 290(3): 1278-1284 (1999)	<input type="checkbox"/>
/MA/	18	GUY, C.A. ET AL., Trifluoroacetic Acid Cleavage and Deprotection of Resin-Bound Peptides Following Synthesis by Fmoc Chemistry, <i>Methods in Enzymology</i> 289: 67-83 (1997)	<input type="checkbox"/>

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/MA/	19	HALAB, L. ET AL., Design, Synthesis, and Conformational Analysis of Azacycloalkane Amino Acids as Conformationally Constrained Probes for Mimicry of Peptide Secondary Structures, Biopolymers 55 (2): 101-122 (2000)	<input type="checkbox"/>
	20	HANESSIAN, S. ET AL., Design and Synthesis of Conformationally Constrained Amino Acids as Versatile Scaffolds and Peptide Mimetics, Tetrahedron 53: 12789-12854 (1997)	<input type="checkbox"/>
	21	HANN, M.M. ET AL., On the Double Bond Isostere of the Peptide Bond: Preparation of an Enkephalin Analogue, Chem. Soc. Perkin Trans. I pp. 307-314 (1982)	<input type="checkbox"/>
	22	HEBERT, T.E. ET AL., A Peptide Derived from a β 2-Adrenergic Receptor Transmembrane Domain Inhibits Both Receptor Dimerization and Activation, J. Biol. Chem. 271: 16384-16392 (1996)	<input type="checkbox"/>
	23	HOLLADAY, M.W. ET AL., Synthesis of Hydroxyethylene and Ketomethylene Dipeptide Isosteres, Tetrahedron Lett. 24(41): 4401-4404 (1983)	<input type="checkbox"/>
	24	HRUBY, V. J. Conformational Restrictions of Biologically Active Peptides Via Amino Acid Side Chain Groups, Life Sci. 31: 189-199 (1982)	<input type="checkbox"/>
	25	HUDSON, D. ET AL., Methionine Enkephalin and Isosteric Analogues, Int. J. Pept. Prot. Res. 14: 177-185 (1979)	<input type="checkbox"/>
	26	JAMES, G.L. ET AL., Benzodiazepine Peptidomimetics: Potent Inhibitors of Ras Farnesylation in Animal Cells, Science 260: 1937-1942 (1993)	<input type="checkbox"/>
	27	JENNINGS-WHITE, C. ET AL., Synthesis of Ketomethylene Analogs of Dipeptides, Tetrahedron Lett. 23(25): 2533-2534 (1982)	<input type="checkbox"/>
	28	KITANAKA J. ET AL. Phloretin as an Antagonist of Prostaglandin F $_{2\alpha}$ Receptor in Cultured Rat Astrocytes, J. Neurochem. 60: 704-708 (1993)	<input type="checkbox"/>
/MA/	29	LAKE, S. ET AL., Cloning of the rat and human prostaglandin F $_{2\alpha}$ receptors and the expression of the rat prostaglandin F $_{2\alpha}$ receptor, FEBS Letters 355 (3): 317-325 (1994)	<input type="checkbox"/>

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/MA/	30	LEFEVRE, P.G., Sugar Transport in the Red Blood Cell: Structure-Activity Relationships in Substrates and Antagonists, Pharmacol. Rev. 13: 39-70 (1961)	<input type="checkbox"/>
	31	LI, D. ET AL., Inhibition of Prostaglandin Synthesis in Newborn Pigs Increases Cerebral Microvessel Prostaglandin F ₂ α and Prostaglandin E ₂ Receptors, Their Second Messengers and Vasoconstrictor Response to Adult Levels, J. Pharmacol. Exp. Ther. 278(1): 370-377 (1996)	<input type="checkbox"/>
	32	LI, D. ET AL., Key role for cyclooxygenase-2 in PGE ₂ and PGF ₂ α receptor regulation and cerebral blood flow of the newborn, Am. J. Physiol. (Regulatory Integrative Comp. Physiol 42): R1283-R1290 (1997)	<input type="checkbox"/>
	33	LOFTS, F.J. ET AL., Specific short transmembrane sequences can inhibit transformation by the mutant neu growth factor receptor in vitro and in vivo, Oncogene 8: 2813-2820 (1993)	<input type="checkbox"/>
	34	LOMBART, H. ET AL., Rigid Dipeptide Mimetics: Efficient Synthesis of Enantiopure Indolizidinone Amino Acids, J. Org. Chem. 61: 9437-9446 (1996)	<input type="checkbox"/>
	35	MACDONALD, M. ET AL., Approaches to Cyclic Peptide β-Turn Mimics, Curr. Org. Chem. 5: 417-438 (2001)	<input type="checkbox"/>
	36	MERRIFIELD, R.B., Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide, J. Am. Chem. Soc. 85: 2149-2154 (1963)	<input type="checkbox"/>
	37	MORLEY, J.S., Modulation of the action of regulatory peptides by structural modification, Trends Pharm. Sci. 463-468 (1980)	<input type="checkbox"/>
	38	NAGAI, U. ET AL., Bicyclic Turned Dipeptide (BTD) as a β-Turn Mimetic; its Design, Synthesis and Incorporation into Bioactive Peptides, Tetrahedron 49(17): 3577-3592 (1993)	<input type="checkbox"/>
	39	PERI, K.G. ET AL., THG113: A Novel Selective FP Antagonist that Delays Preterm Labor, Seminars in Perinatology 26 (6): 389-397 (2002)	<input type="checkbox"/>
/MA/	40	POLYAK, F. ET AL., Rigid Dipeptide Mimics: Synthesis of Enantiopure 5- and 7-Benzyl and 5,7-Dibenzyl Indolizidinone Amino Acids via Enolization and Alkylation of 8-Oxo α,ω-Di-[N-(9-(9-phenylfluorenyl)amino)azela] Esters, J. Org. Chem. 63: 5937-5949 (1998)	<input type="checkbox"/>

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/MA/	41	POTVIN, W. ET AL., Refractoriness of the gravid rat uterus to tocolytic and biochemical effects of atrial natriuretic peptide, Br. J. Pharmacol. 100: 341-347 (1990)	<input type="checkbox"/>
	42	POWELL, A.M. ET AL., Menstrual-PGF2 α , PGE2 and TXA2 In Normal and Dysmenorrheic Women and Their Temporal Relationship To Dysmenorrhea, Prostaglandins 29(2): 273-289 (1985)	<input type="checkbox"/>
	43	REHWALD, M. ET AL., Possible role for ligand binding of histidine 81 in the second transmembrane domain of the rat prostaglandin F2 α receptor, FEBS Letters 443(3): 357-362 (1999)	<input type="checkbox"/>
	44	SENIOR, J. ET AL., In vitro characterization of prostanoid FP-, DP-, IP- and TP-receptors on the non-pregnant human myometrium, Br. J. Pharmacol. 107: 215-221 (1992)	<input type="checkbox"/>
	45	SPATOLA, A.F. ET AL., Structure-Activity Relationships of Enkephalins Containing Serially Replaced Thiomethylene Amide Bond Surrogates, Life Sci. 38: 1243-1249 (1986)	<input type="checkbox"/>
	46	STEWART, J. M., Cleavage Methods Following Boc-Based Solid-Phase Peptide Synthesis, Methods in Enzymology 289: 29-44 (1997)	<input type="checkbox"/>
	47	STRADER, C.D. ET AL., Structure and Function of G Protein-Coupled Receptors, Ann. Rev. Biochem. 63: 101-132 (1994)	<input type="checkbox"/>
	48	SUGIMOTO, Y. ET AL., Failure of Parturition in Mice Lacking the Prostaglandin F Receptor, Science 277: 681-683 (1997)	<input type="checkbox"/>
	49	TAYLOR, J.M. ET AL., Peptides as Probes for G Protein Signal Transduction, Cell Signal. 6(8): 841-849 (1994)	<input type="checkbox"/>
/MA/	50	THORELL, J.I. ET AL., Enzymatic Iodination of Polypeptides with 125I To High Specific Activity, Biochim. Biophys. Acta 28, 251 (3): 363-369 (1971)	<input type="checkbox"/>

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EXAMINER SIGNATURE

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